



## SEQUENCE LISTING

<110> Sette, Alessandro  
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Epimmune Inc.

<120> Alteration of Immune Response Using Pan DR-Binding Peptides

<130> 018623-006240US

<140> US 09/709,774  
<141> 2000-11-08

<150> US 08/121,101  
<151> 1993-09-14

<150> US 08/305,871  
<151> 1994-09-14

<150> US 60/010,510  
<151> 1996-01-24

<150> US 08/788,822  
<151> 1997-01-23

<160> 22

<170> PatentIn Ver. 2.1

<210> 1  
<211> 13  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:HA 307-319

<400> 1  
Pro Lys Tyr Val Lys Gln Asn Thr Leu Lys Leu Ala Thr  
1 5 10

<210> 2  
<211> 24  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:MBP 78-101

<400> 2  
Gly Arg Thr Gln Asp Glu Asn Pro Val Trp His Phe Phe Lys Asn Ile  
1 5 10 15  
Val Thr Pro Arg Thr Pro Pro Pro  
20

<210> 3  
 <211> 12  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:MT 65 kd 3-13

<400> 3  
 Tyr Lys Thr Ile Ala Phe Asp Glu Glu Ala Arg Arg  
     1                    5                    10

<210> 4  
 <211> 14  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:717.01  
           combinatorial

<400> 4  
 Tyr Ala Arg Phe Gln Ser Gln Thr Thr Leu Lys Gln Lys Thr  
     1                    5                    10

<210> 5  
 <211> 14  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:Tet Tox 830-843

<400> 5  
 Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu  
     1                    5                    10

<210> 6  
 <211> 13  
 <212> PRT  
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<220>  
 <223> Description of Artificial Sequence:Tet Tox  
           1272-1284

<400> 6  
 Asn Gly Gln Ile Gly Asn Asp Pro Asn Arg Asp Ile Leu  
     1                    5                    10

<210> 7  
 <211> 17  
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<220>  
 <223> Description of Artificial Sequence:RQIV

<400> 7  
 Tyr Ala His Ala Ala His Ala Ala His Ala Ala His Ala Ala His Ala  
           1                  5                  10                  15

Ala

<210> 8  
 <211> 14  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:Ova 323-336

<400> 8  
 Ile Ser Gln Ala Val His Ala Ala His Ala Glu Ile Asn Glu  
           1                  5                  10

<210> 9  
 <211> 16  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:lambda rep  
           12-26

<400> 9  
 Tyr Leu Glu Asp Ala Arg Arg Leu Lys Ala Ile Tyr Glu Lys Lys Lys  
           1                  5                  10                  15

<210> 10  
 <211> 17  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:HEL 46-61

<400> 10  
 Tyr Asn Thr Asp Gly Ser Thr Asp Tyr Gly Ile Leu Gln Ile Asn Ser  
           1                  5                  10                  15

Arg

<210> 11  
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 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:HBVnc 50-69

<400> 11  
 Pro His His Thr Ala Leu Arg Gln Ala Ile Leu Cys Trp Gly Glu Leu  
           1                  5                  10                  15

Met Thr Leu Ala  
                   20

<210> 12  
 <211> 21  
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<220>  
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<400> 12  
 Asp Ile Phe Lys Lys Ile Ala Lys Met Glu Lys Ala Ser Ser Val Phe  
           1                  5                  10                  15

Asn Val Val Asn Arg  
                   20

<210> 13  
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 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:MT (Y)17-31

<400> 13  
 Tyr Ser Gly Pro Leu Lys Ala Glu Ile Ala Gln Arg Leu Glu Asp Val  
           1                  5                  10                  15

<210> 14  
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<220>  
 <223> Description of Artificial Sequence:HBVc 128-140

<400> 14  
 Thr Pro Pro Ala Tyr Arg Pro Pro Asn Ala Pro Ile Leu  
           1                  5                  10

<210> 15  
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<220>  
 <223> Description of Artificial Sequence:PLP 139-151

<400> 15  
 His Ser Leu Gly Lys Trp Leu Gly His Pro Asp Lys Phe  
           1                  5                  10

<210> 16  
 <211> 4  
 <212> PRT  
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<220>  
 <223> Description of Artificial Sequence:R-4 in pan DR  
 binding peptide formula

<400> 16  
 Trp Thr Leu Lys  
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<210> 17  
 <211> 13  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:Pan DR binding  
 peptide

<220>  
 <221> MOD\_RES  
 <222> (3)  
 <223> Xaa = cyclohexylalanine

<400> 17  
 Ala Ala Xaa Ala Ala Ala Lys Thr Ala Ala Ala Ala  
 1 5 10

<210> 18  
 <211> 13  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:Pan DR binding  
 peptide

<220>  
 <221> MOD\_RES  
 <222> (3)  
 <223> Xaa = cyclohexylalanine

<400> 18  
 Ala Ala Xaa Ala Ala Ala Ala Thr Leu Lys Ala Ala Ala  
 1 5 10

<210> 19  
 <211> 13  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:Pan DR binding  
 peptide

<220>  
 <221> MOD\_RES  
 <222> (3)  
 <223> Xaa = cyclohexylalanine

<400> 19  
 Ala Ala Xaa Val Ala Ala Ala Thr Leu Lys Ala Ala Ala  
           1                          5                          10

<210> 20  
 <211> 13  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:Pan DR binding  
           peptide

<220>  
 <221> MOD\_RES  
 <222> (3)  
 <223> Xaa = cyclohexylalanine

<400> 20  
 Ala Ala Xaa Ile Ala Ala Ala Thr Leu Lys Ala Ala Ala  
           1                          5                          10

<210> 21  
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 <212> PRT  
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<220>  
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           peptide

<220>  
 <221> MOD\_RES  
 <222> (3)  
 <223> Xaa = cyclohexylalanine

<400> 21  
 Ala Lys Xaa Val Ala Ala Trp Thr Leu Lys Ala Ala Ala  
           1                          5                          10

<210> 22  
 <211> 13  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:Pan DR binding  
           peptide

<400> 22  
 Ala Lys Phe Val Ala Ala Trp Thr Leu Lys Ala Ala Ala  
           1                          5                          10